CONTRACT CERTIFICATE

No.13th RA Bill (For Other Works) Date 2023

SBR No. 105/23-24 DATED 29/01/2024

EE/ELE/Y/BR No.....

Division: **Electricals (Yelahanka)** Sub-Division: **Electricals** Dt.....

Bill Received No. Dated Divisional Cash Book Voucher No..... Dated.....

Sub Divisional **Job Code :-003-22-000022**

Schedule Docket No. Head of Account : **P 0300** M&R to Street lights - Replacement of Burnt bulbs etc

D.R.No.: **Period:- 01-12-2023 to 31-12-2023(for 1 months)**

Name of Work:- *Annual maintenance and repairs of Street Lights in Ward No 3 & 4 Park Package Y-12 of Yelahanka Zone*

Name of Contractor and Full Address:**M/S. United Engineers**

Reference to Agreement No:EE/Ele/YZ/AG/000012 /2022-23 Date:07/04/2022

Reference to Work order No:EE/Ele/YZ/WO/000012 /2022-23 Date:07/04/2022

Supplymentary Work order No:- EE/Ele/YZ/WO/000012/2023-24 Dated 01-04-2023

For UNITED ENGINEERS

Certified that the measurements were taken by me on 06/01/24 and recorded of Pages 260631 to 260632 of measurement Book No. 2607/23-24 and that the work is satisfactorily executed.

Contractor **Officer-in-charge of work**

Proprietor

Certified that the measurement were taken by me on 06/01/24 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Assistant Executive Engineer (Ele)
BBMP, Bangalore

Sub-Division Officer

II Memorandum of Payment

1) Total value of work done or supplies made as per account within	UP.DT	1975524:80
2) Deduct amount to be held in reserve being .....percent Rs.....	P.Bill	1897458:66
3) " Balance	13thRABill	78066:00
4) Deduct Payment:		
a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... adjusted towards cash advance recovery of	Amount	
	Rtkd.	781:00
	LWC I.I.	781:00
	CWST I-I.	781:00
	SWST I.I.	781:00
	CBFO I-I.	78:00
b) Payments Now made } cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.	Fine	1500:00
	Scrap 2-I.	1561:00
	Deduction	6253:00
5) Balance being unpaid value of work done held in reserve.		
6) Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.		
7) Net amount due to or from Contractor unadjustments items.		
8) Advance to Contractor for materials brought to site (as detailed) within		
9) Value of Government materials supplied.		
Total amount adjusted	Paychyll	71803:00

Contractor's Signature

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum

(in final settlement of all demands)

For UNITED ENGINEERS

Proprietor

(For use in the Office)

Witness

1.

2.

Dated Signature of Contractor

For UNITED ENGINEERS

Stamp

Proprietor

Paid by me by Cheque No.....Dated.....

Cash Rs.....

Dated.....

Initials of Officer making payment

PO 300 M and R to Street Lgts

ರೂ: 78066:00 ಅಂಕಿ ಮಾಡಿ ಸ್ವೀಕರಿಸಿದೆ

ರೂ: 71803:00 ಚೆಕ್ ವಿತರಿಸಲಾಗಿದೆ

ರೂ: 6253:00 ಹೊಂದಾಣಿಕೆ ಮಾಡಿದೆ

28/2/24

ಲೆಕ್ಕ ಅಧೀಕ್ಷಕರು ಕಾ.ಪಾ.ಅ. ಯಲಹಂಕ ವಲಯ

Executive Engineer

Sl. No.	Description of item	Unit
	Name of Work :-Annual maintenance and repairs of Street Lights in Ward No 3 & 4 Park Package Y-12 of Yelahanka Zone	
1	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for various type of street lighting systems as detailed below.i) Poles with 36/40 W fluorescent tube light street lighting system.	Each
2	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 125 W HPMV light Park lighting system.	Each
3	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 250W HPSV light street lighting system.	Each
4	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for with 400W HPSV street light/High Mast lighting systems.	Each
5	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 70 watt HPMH park lighting systems.	Each
6	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 250 watt HPMH park lighting systems	Each
7	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents 400 watts HPMH street light/High Mast lighting systems.	Each
8	Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/fused out compnents like LED drivers MCPCB protective surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 24 watt LED streetlight lighting system	Each
9	Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/fused out compnents like LED drivers MCPCB protective surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 65 watt LED streetlight lighting system	Each

Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty.	Cost	Qty.	Rate Rs. P.	Amount	Qty	Cost	
		1	Months		Upto Date paid so for 20 Months 24 Days		
1x19 Months 24 Days	0	0	50.00	0.00	1x20 Months 24 Days	0.00	
710x19 Months 24 Days	931342.50	710	66.25	47037.50	710x20 Months 24 Days	978380.00	
5x19 Months 24 Days	8249.67	5	83.33	416.65	5x20 Months 24 Days	8666.32	
38x19 Months 24 Days	62697.49	38	83.33	3166.54	38x20 Months 24 Days	65864.03	
50x19 Months 24 Days	57746.70	50	58.33	2916.50	50x20 Months 24 Days	60663.20	
47x19 Months 24 Days	85298.80	47	91.66	4308.02	47x20 Months 24 Days	89606.82	
35x19 Months 24 Days	66410.19	35	95.83	3354.05	35x20 Months 24 Days	69764.24	
179x19 Months 24 Days	265815.00	179	75.00	13425.00	179x20 Months 24 Days	279240.00	
6x19 Months 24 Days	10989.00	6	92.50	555.00	6x20 Months 24 Days	11544.00	

10	Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/fused out compnents like LED drivers MCPCB protective surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 90 watt LED streetlight lighting system	Each
11	Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/fused out compnents like LED drivers MCPCB protective surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 110/120 watt LED streetlight lighting system	Each
12	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) 100Amps 25kA.	Nos
13	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 4 core 16 sqmm	Mtrs
14	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 6 sqmm to 16 sqmm	Mtrs
15	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7)In soil (ordinary)	Mtrs
16	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete.16SWG	Sqcms
17	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.100 to 125Amps	Nos
18	Supplying and fixing Microprocessor Based Astronomical timer Switch with using necessary bolts, nuts and washers.	Each
19	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 50-63 Amps SP	Each
20	Supply of LED pole mounting type post top lantern with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/ clear glass material, delivering superior light output.Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/Overload, short circuit/ miss-wiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB . LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in- house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source.LED Post Top Lantern with 35 watts	Nos
	TOTAL Rs	
	Add GST 18 % on item no 12 to 20	0.00
	TOTAL Rs	
	Fine imposed for non burning of street lights For the period of 1/12/2023 to 31/12/2023	
	As per street light agreement clause 2% will be deducted in monthly maintenance bill against the released scrap material	
	GRAND TOTAL	

Certificate

The above said monthly maintenance work has been carried out satisfactorily

Assistant Executive Engineer (Ele)
BBMP, Bangalore

0	0.00	0	104.16	0.00	0	0.00	
0	0.00	0	125.00	0.00	0	0.00	
10	55000.00	0	5500.00	0.00	10	55000.00	
397	49625.00	0	125.00	0.00	397	49625.00	
397	30172.00	0	76.00	0.00	397	30172.00	
348.00	3480.00	0	10.00	0.00	348	3480.00	
180000.00	54000.00	0	0.30	0.00	180000	54000.00	
13	52000.00	0	4000.00	0.00	13	52000.00	
13	31200.00	0	2400.00	0.00	13	31200.00	
10	7000.00	0	700.00	0.00	10	7000.00	
10	62000.00	0	6200.00	0.00	10	62000.00	
	1833026.35			**75179.26**		**1908205.61**	
add 6% GST(18%-12%)	64432.31	-12%	9021.51	66157.75	add 6% GST(18%-12%)	67319.19	
	1897458.66	18%	11908.39	**78066.14**		**1975524.80**	
	35100.00			1500.00		36600.00	
	37122.43			1561.32		38683.75	
	1825236.23			**75004.82**		**1900241.05**	